

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054044 A1

(51) International Patent Classification⁷: **B62D 55/253,**
55/24

(21) International Application Number:
PCT/KR2004/003142

(22) International Filing Date: 1 December 2004 (01.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-406157 4 December 2003 (04.12.2003) JP
2004-130001 26 April 2004 (26.04.2004) JP

(71) Applicant (for all designated States except US): **XENITH
TRACK CO., LTD** [KR/KR]; 520-17, Daehwa-Dong,
Daeduck-Ku, Taejon 306-800 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **CHOI, Yong Jae**
[KR/KR]; 520-17, Daehwa-Dong, Daeduck-Ku, Taejon
306-800 (KR).

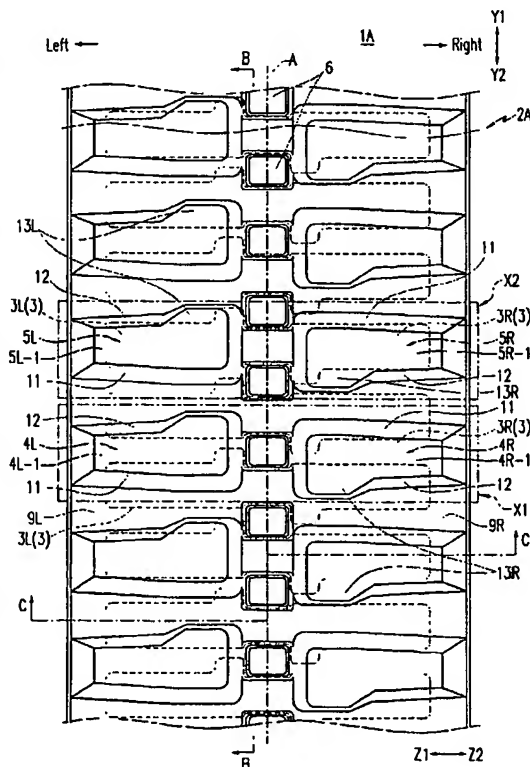
(74) Agent: **YOU ME PATENT & LAW FIRM**; Seolim Bldg.,
649-10 Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: **ELASTIC CRAWLER**



(57) Abstract: Disclosed is an elastic crawler formed with an elastic material in the shape of an endless track, and used as the wheel for the work vehicle with enhanced reliability and durability. The elastic crawler includes a crawler body 2A formed with an elastic material and having lugs 4L, 4R, 5L and 5R protruded at the ground contact side thereof, and cores 3 having wings 3L and 3R extended left and right to the center of the crawler body in the width direction thereof, and arranged parallel to each other in the longitudinal track direction of the crawler body such that the wings face the lugs formed at the crawler body. The crawler body has first and second lug units alternately arranged parallel to each other in the longitudinal track direction thereof (in the direction of Y1 and Y2). The first lug unit has left lugs 4L facing each other over two wings, and right lugs 4R arranged right to the center of the crawler body while proceeding symmetrical to the left lugs around the center. The second lug unit has left lugs 5L facing each other over one wing, and right lugs 5R arranged right to the center of the crawler body while proceeding symmetrical to the left lugs around the center.

WO 2005/054044 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*